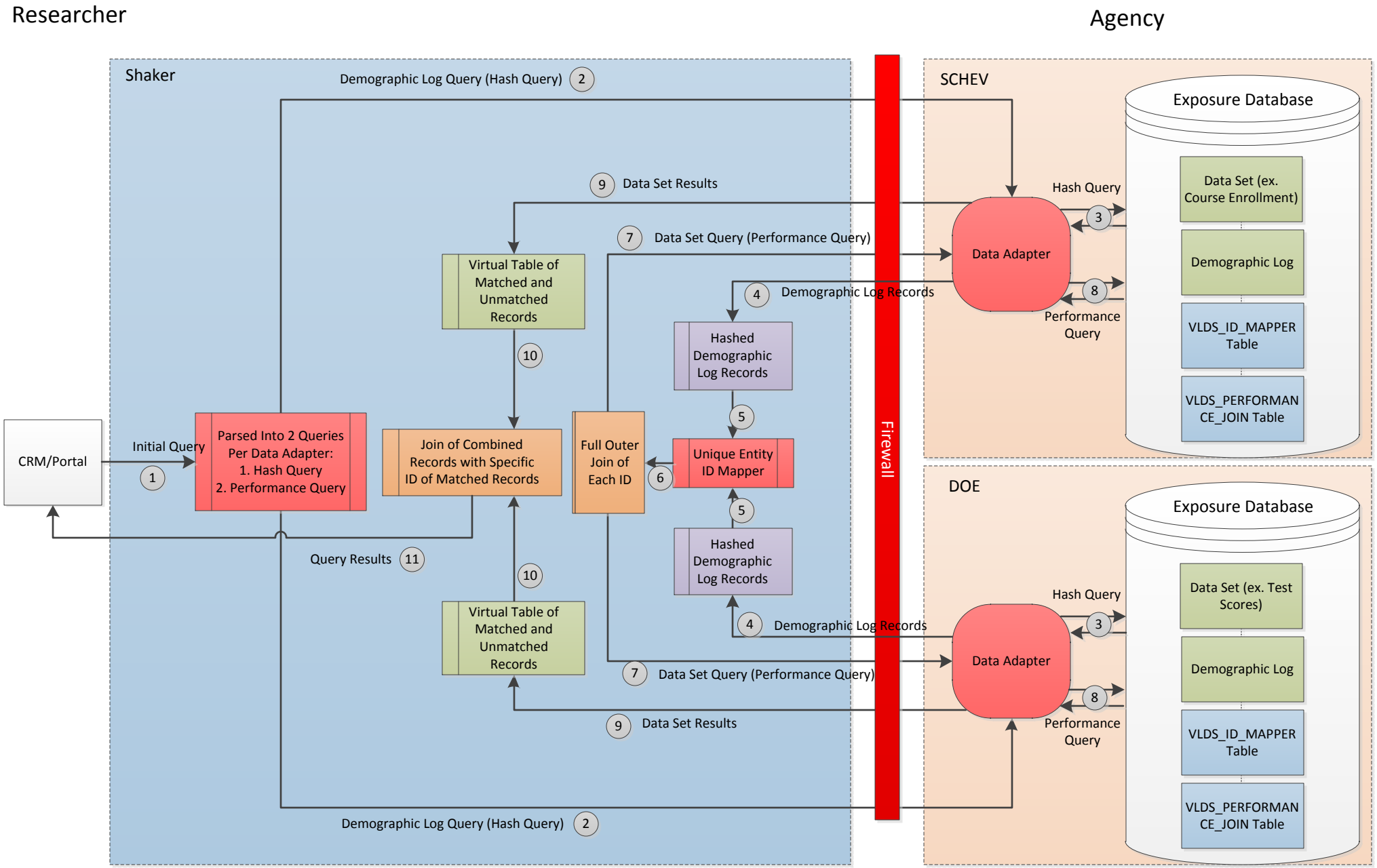
SHAKER OVERVIEW



SHAKER DIAGRAM STEPS

1. Initial approved query sent to the Shaker which is parsed into Demographic Log Query (Hash Query) and Data Set Query (Performance Query).

2. The Hash query is sent to the agency's Data Adapter.

3. The Data Adapter queries the Demographic Log, VLDS_ID_MAPPER Table, and the data set. The Unique Entity IDs are held in the VLDS_ID_MAPPER Table and are populated by the Data Adapter. The IDs are regenerated on a weekly basis for security purposes and that process is initiated by the Shaker.

4. The Demographic Log records with the Unique Entity IDs are hashed and sent to the Shaker.

5. The hashed Demographic Log records are submitted to the Unique Entity ID Mapper. The records are then sent through Log Reduction and Matching process.

6. The Unique Entity ID Mapper creates a full outer join of the hashed Unique Entity IDs only.

7. These IDs are used to submit the 2nd query, the Data Set Query (Performance Query) which is also sent to the agency’s Data Adapter.

8. The Data Adapter queries all the tables in the agency’s Exposure Database and the results are sent back to the Data Adapter. The VLDS_PERFORMANCE_JOIN Table is used in this query to match the Unique Entity IDs in the VLDS_ID_MAPPER Table with the Internal IDs in the Demographic Log Table.

9. The results from the Data Adapter are sent to the Shaker where they are put into virtual tables.

10. The virtual tables from the agency’s result sets are then joined into a combined table of matched and unmatched records.

11. The final results are returned to the original researcher who submitted the initial query

Revision History

Version #	Date	Revised By	Comments
1.0	5/16/2012	Austin Mills	Diagram Creation
1.1	5/24/2012	Austin Mills	Added numbering to clarify steps
1.2	6/1/2012	Jerome Jacobsen	Added process of parsing out queries
1.3	6/28/2012	Austin Mills	Added Shaker Diagram Steps and added Unique Entity IDs to step 3
2.0	6/29/2012	Austin Mills	Updated Agency Exposure Database and Data Adapter Design